

04/09/01
1105 U.S. PTO

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1105 U.S. PTO
09/827937
04/09/01

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**REGISTERED PATENT AGENT
***SENIOR COUNSEL

April 9, 2001

WRITER'S DIRECT NUMBER:
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INTERNET ADDRESS:
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Commissioner for Patents
Washington, D.C. 20231

Box Patent Application

Re: U.S. Non-Provisional Utility Patent Application under 37 C.F.R. § 1.53(b)
(Continuation of Appl. No. 09/518,383; Filed: March 3, 2000)
Appl. No. To be assigned; Filed: Herewith
For: **Human G-Protein Coupled Receptors**
Inventors: Li *et al.*
Our Ref: 1488.1220003/EKS/EJH

Sir:

The following documents are forwarded herewith for appropriate action by the U.S. Patent and Trademark Office:

1. PTO Fee Transmittal (Form PTO/SB/17);
2. Authorization to Treat a Reply As Incorporating An Extension of Time Under 37 C.F.R. § 1.136(a)(3) (*in duplicate*);
3. PTO Utility Patent Application Transmittal (Form PTO/SB/05);
4. Application Data Sheet Under 37 C.F.R. § 1.176;
5. U.S. Utility Patent Application entitled:

HUMAN G-PROTEIN COUPLED RECEPTORS

Commissioner for Patents
April 9, 2001
Page 2

and naming as inventors:

Yi LI
Steven M. RUBEN

the application consisting of:

- a. A specification containing:
 - i. 49 pages of description prior to the claims;
 - ii. 3 pages of claims (22 claims);
 - iii. a one (1) page abstract;
 - b. 7 sheets of drawings (Figures: 1A, 1B, 1C, 2, 3A, 3B, and 4);
 - c. 17 pages of a paper copy of a sequence listing;
 - d. A copy of the executed Declaration and Power of Attorney, as originally filed in U.S. Appl. No. 08/852,824;
 - e. A copy of an assignment to Human Genome Sciences, Inc., as recorded at reel: 8968; frame: 0688;
6. A Preliminary Amendment;
 7. A computer readable copy of the sequence listing;
 8. A copy of the Associate Power of Attorney filed on June 3, 1999 in the U.S. Appl. No. 08/852,824, along with the U.S. Patent and Trademark stamped returned postcard;
 9. Two (2) return postcards; and
 10. Our check No. **30906** for \$1,598.00 cover:
 - \$ 710.00 Filing fee for patent application;
 - \$ 888.00 Fee for excess claims.

In accordance with 37 C.F.R. § 1.821(f), the paper copy of the sequence listing and the computer readable copy of the sequence listing submitted herewith in the above application are the same.

Commissioner for Patents

April 9, 2001

Page 3

It is respectfully requested that, of the two attached postcards, one be stamped with the filing date of these documents and returned to our courier, and the other, prepaid postcard, be stamped with the filing date and unofficial application number and returned as soon as possible. The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036. A duplicate copy of this letter is enclosed.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.



Elizabeth J. Haanes, Ph.D.

Agent for Applicants

Registration No. 42,613

EJH/pcd

Encls.

P:\USERS\BHAANES\1488\122-3\ContAppl._tm1tr

Please type a sign (+) inside this box →

PTO/SB/05 (03-01)

Approved for use through 10/31/2002. OMB 0651-0032
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
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UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR § 1.53(b))

Attorney Docket No.

1488.1220003/EKS/EJH

First Inventor

Li et al.

Title

Human G-Protein Coupled Receptors

Express Mail Label No.

Assistant Commissioner for Patents
Box Patent Application
Washington, DC 20231

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

ADDRESS TO:

1. ☒ Fee Transmittal Form (e.g., PTO/SB/17)
(Submit an original, and a duplicate for fee processing)
2. ☐ Applicant claims small entity status.
See 37 CFR 1.27.
3. ☒ Specification [Total Pages 53]
(preferred arrangement set forth below)
 - Descriptive title of the Invention
 - Cross Reference to Related Applications
 - Statement Regarding Fed sponsored R & D
 - Reference to sequence listing, a table, or a computer program listing appendix
 - Background of the Invention
 - Brief Summary of the Invention
 - Brief Description of the Drawings (if filed)
 - Detailed Description
 - Claim(s)
 - Abstract of the Disclosure
4. ☒ Drawing(s) (35 U.S.C. 113) [Total Sheets 7]
5. Oath or Declaration [Total Pages 1]
 - a. ☐ Newly executed (original or copy)
 - b. ☒ Copy from a prior application (37 CFR 1.63(d))
(for continuation/divisional with Box 18 completed)
 - i. ☐ DELETION OF INVENTOR(S)
Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR §§ 1.63(d)(2) and 1.33(b).
6. ☒ Application Data Sheet. See 37 CFR 1.76.

7. ☐ CD-ROM or CD-R in duplicate, large table or Computer Program
(Appendix)
8. Nucleotide and/or Amino Acid Sequence Submission
(if applicable, all necessary)
 - a. ☒ Computer Readable Form (CRF)
 - b. Specification Sequence Listing on:
 - i. ☐ CD-ROM or CD-R (2 copies); or
 - ii. ☒ paper
 - c. ☒ Statements verifying identity of above copies

ACCOMPANYING APPLICATION PARTS

9. ☒ Assignment Papers (cover sheet & document(s))
10. ☐ 37 CFR 3.73(b) Statement
(when there is an assignee) ☒ Power of Attorney
and one Associate Power of Attorney
11. ☐ English Translation Document (if applicable)
12. ☐ Information Disclosure Statement (IDS)/PTO-1449 ☐ Copies of IDS Citations
13. ☒ Preliminary Amendment
14. ☒ Two (2) Return Receipt Postcard (MPEP 503)
(Should be specifically itemized)
15. ☐ Certified Copy of Priority Document(s)
(if foreign priority is claimed)
16. ☐ Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.
17. ☒ Other: Authorization under 37 C.F.R. § 1.136(a)(3)
☒ Other: The name of the assignee is: Human Genome Sciences, Inc.

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

☒ Continuation ☐ Divisional ☐ Continuation-in-Part (CIP)
Prior application information: Examiner To be assigned of prior application No: 09/518,383
Group/Art Unit: 1643

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

19. CORRESPONDENCE ADDRESS

☒ Customer Number or Bar Code Label

Customer No. 28730

(Insert Customer No. 28730 and bar code label here)

or ☐ Correspondence address below

NAME

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Attorneys at Law

ADDRESS

CITY

COUNTRY

STATE

TELEPHONE

ZIP CODE

FAX

NAME (Print/Type)

Elizabeth J. Haanes, Ph.D.

Registration No. (Attorney/Agent)

42,613

SIGNATURE

Date April 9, 2001

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SKGF Rev 3/29/01 mac ContAppl_SB05_form

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**FEE TRANSMITTAL
for FY 2001**

Patent fees are subject to annual revision.

Complete if Known

Application Number	To be assigned Cont. of 09/518,383
Filing Date	Herewith
First Named Inventor	Yi Li
Examiner Name	To be assigned
Group Art Unit	To be assigned
Attorney Docket No.	1488.1220003/EKS/EJH

TOTAL AMOUNT OF PAYMENT (\$)**1,598.00****METHOD OF PAYMENT (check one)**

1. ☐ The Commissioner is hereby authorized to charge indicated fees and credit any overpayment to:

Deposit Account Number **19-0036**
Deposit Account Name **Sterne, Kessler, Goldstein & Fox P.L.L.C.**

☐ Charge Any Additional Fee Required
Under 37 CFR §§ 1.16 and 1.17

☐ Applicant claims small entity status
See 37 CFR 1.27

☒ Payment Enclosed:

☒ Check ☐ Credit card ☐ Money Order ☒ Other*

*Charge any deficiencies or credit any overpayments in the fees or fee calculations of Parts 1, 2 and 3 below to Deposit Account No. 19-0036.

FEE CALCULATION**1. BASIC FILING FEE**

Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description	Fee Paid
101	710	201	355	Utility filing fee	710.00
106	320	206	160	Design filing fee	
107	490	207	245	Plant filing fee	
108	710	208	355	Reissue filing fee	
114	150	214	75	Provisional filing fee	

SUBTOTAL (1) (\$) **710.00****2. EXTRA CLAIM FEES**

Total Claims	Extra	Fee from below	Fee Paid
56	- 20** = 36	X 18	= 648.00
Indep. Claims 6	- 3** = 3	X 80	= 240.00
Multiple Dependent			=

Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description
103	18	203	9	Claims in excess of 20
102	80	202	40	Independent claims in excess of 3
104	270	204	135	Multiple dependent claim
108	80	209	40	**Reissue independent claims over original patent
110	18	210	9	**Reissue claims in excess of 20 and over original patent

SUBTOTAL (2) (\$) **888.00**

** or number previously paid, if greater; For Reissues, see above

FEE CALCULATION (continued)**3. ADDITIONAL FEES**

Large Entity Small Entity

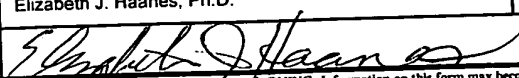
Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee paid
105	130	205	65	Surcharge - late filing fee or oath	
127	50	227	25	Surcharge - late provisional filing fee or cover sheet	
139	130	139	130	Non-English specification	
147	2,520	147	2,520	For filing a request for <i>ex parte</i> reexamination	
112	920*	112	920*	Requesting publication of SIR prior to Examiner action	
113	1,840*	113	1,840*	Requesting publication of SIR after Examiner action	
115	110	215	55	Extension for reply within first month	
116	390	216	195	Extension for reply within second month	
117	890	217	445	Extension for reply within third month	
118	1,390	218	695	Extension for reply within fourth month	
128	1,890	228	945	Extension for reply within fifth month	
119	310	219	155	Notice of Appeal	
120	310	220	155	Filing a brief in support of an appeal	
121	270	221	135	Request for oral hearing	
138	1,510	138	1,510	Petition to institute a public use proceeding	
140	110	240	55	Petition to revive - unavoidable	
141	1,240	241	620	Petition to revive - unintentional	
142	1,240	242	620	Utility issue fee (or reissue)	
143	440	243	220	Design issue fee	
144	600	244	300	Plant issue fee	
122	130	122	130	Petitions to the Commissioner	
123	130	123	130	Petitions related to provisional applications	
126	180	126	180	Submission of Information Disclosure Stmt	
581	40	481	40	Recording each patent assignment per property (times number of properties)	
146	710	246	355	Filing a submission after final rejection (37 CFR 1.129(a))	
149	710	249	355	For each additional invention to be examined (37 CFR 1.129(b))	
179	710	279	355	Request for Continued Examination (RCE)	
169	900	169	900	Request for expedited examination of a design application	

Other fee (specify) :

Other fee (specify) :

*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$) **1,598.00****Complete (if applicable)**

SUBMITTED BY		Registration No.		Telephone	
Name (Print/Type)	Elizabeth J. Haanes, Ph.D.	(Attorney/Agent)	42,613		202-371-2600
Signature				Date	April 9, 2001

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

1c929 U.S. PTO
09/827937
04/09/01

In re application of:

Li *et al.*

Appl. No. To be assigned
(Continuation of Appl. No. 09/518,383; Filed: March 3, 2000)

Filed: Herewith

For: **Human G-Protein Coupled
Receptors**

Confirmation No. To be assigned

Art Unit: To be assigned

Examiner: To be assigned

Atty. Docket: 1488.1220003/EKS/EJH

**Authorization To Treat A Reply As Incorporating An Extension Of
Time Under 37 C.F.R. § 1.136(a)(3)**

Commissioner for Patents
Washington, D.C. 20231

Sir:

The U.S. Patent and Trademark Office is hereby authorized to treat any concurrent or future reply that requires a petition for an extension of time under this paragraph for its timely submission, as incorporating a petition for extension of time for the appropriate length of time. The U.S. Patent and Trademark Office is hereby authorized to charge all required extension of time fees to our Deposit Account No. 19-0036, if such fees are not otherwise provided for in such reply. A duplicate copy of this authorization is enclosed.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.



Elizabeth J. Haanes, Ph.D.
Agent for Applicants
Registration No. 42,613

Date: April 9, 2001

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BUDAPEST TREATY ON THE INTERNATIONAL RECOGNITION OF
THE DEPOSIT OF MICROORGANISMS FOR THE PURPOSES OF PATENT PROCEDURE

INTERNATIONAL FORM

RECEIPT IN THE CASE OF AN ORIGINAL DEPOSIT ISSUED PURSUANT TO RULE 7.3
AND VIABILITY STATEMENT ISSUED PURSUANT TO RULE 10.2

10929 U.S. PTO
09/02/93
04/09/01

To: (Name and Address of Depositor or Attorney)

Human Genome Sciences, Inc.
Attn: Robert H. Benson
9410 Key West Avenue
Rockville, MD 20850

HGS PATENT DEPT.

Deposited on Behalf of: Human Genome Sciences, Inc. (Ref. PF351PP.SKB)
Identification Reference by Depositor: PF351PP.SKB
ATCC Designation

DNA Plasmid 405439
DNA Plasmid 563238

209003 ✓
209004 ✓

The deposits were accompanied by: ___ a scientific description ___ a proposed taxonomic description indicated above.

The deposits were received by this International Depository Authority and have been accepted.

AT YOUR REQUEST:

☒ We will inform you of requests for the strains for 30 years.

The strains will be made available if a patent office signatory to the Budapest Treaty certifies one's right to receive, or if a U.S. Patent is issued citing the strains, and ATCC is instructed by the United States Patent & Trademark Office or the depositor to release said strains.

If the cultures should die or be destroyed during the effective term of the deposit, it shall be your responsibility to replace them with living cultures of the same.

The strains will be maintained for a period of at least 30 years from date of deposit, or five years after the most recent request for a sample, whichever is longer. The United States and many other countries are signatory to the Budapest Treaty.

The viability of the cultures cited above was tested

On that date, the cultures were viable.

International Depository Authority: American Type Culture Collection, Rockville, Md. 20852 USA

Signature of person having authority to represent ATCC:

Barbara M. Hailey
Barbara M. Hailey, Administrator, Patent Depository

Date:



Human Genome Sciences, Inc.
Sequence Worksheet
HNFDL69XX: H.sapiens repeat polymorphism in LIPE gene for hor

HGS

09/827937
Jc929 U.S. PTO

Sequence Information

Gene Name: H.sapiens repeat polymorphism in LIPE gene 1 HGS Code: 563238 Sequence ID: HNFDL69XX
Library Name: Human Neutrophil, Activated Library Catalog: H0271
Date Sequenced: Lab Sequenced: HGS Group ID: 2514675 Class: 1
Date Scored: Lab Scored: HGS In Group: 18 Previous Class: 1

Search Results

Overlap	Score	Description
gb X65642	260	H.sapiens repeat polymorphism in LIPE gene for hormone sensitive lipase.
gp X54937 HS	93	cannabinoid receptor [Homo sapiens] >pir S S17595 cannabinoid receptor - human >sp P21554 CB1R_HUMAN CANNABINOID RECEPTOR 1
gp X55812 RN	93	putative cannabinoid receptor [Rattus norvegicus] >pir S A33117 cannabinoid receptor - rat >sp P20272 CB1R_RAT CANNABINOID
gp L20334 MU	141	EDG-like receptor [Mus musculus]
gp U10699 RN	152	pH218 [Rattus norvegicus] >pir S JC1465 probable G protein-coupled receptor - rat
gp M31210 HU	210	ECGF1 gene product [Homo sapiens] >pir S A35300 G protein-coupled receptor edg-1 - human >sp P21453 EDG1_HUMAN PROBABLE G P

Sequence

ID HNFDL69XX unannotated; DNA; 1637 BP.
DE H.sapiens repeat polymorphism in LIPE gene for hormone sensitive lipase.

XX

DT

X

SQ Sequence 1637 BP;

GGCAGAGCC CACCTGGGT CGGGCTCTAG TCAGCCCCCG GGGAGGCCA TCAAGCCAC
GGGACCCCG GTGCCCCCG AGTCTGCCA ACAGCTGGG GCGGCGGGC ACAGCCGCT
CAATTGTTG CACTACAAC ACTGGGCG GCTGGCGGG CGGGGGGGC CGGAGGATGG
CGGCTGGGG GCGCTGGGG GCGTGGGT TCGGCGGAG TCGTGGGAG TCGTGGGAG
CTTGTGGTG CTGGGGGCA TCACAGCCA CATGGGTG CACGCTGG TCTACTATG
CCTGTGAC ATTAGGATGA GTGACCTGT CACGGGCG GCTACCTG CCAAGGCT
GCTGTGGG GCGGCACT TCGTGGG CCGGCGGAG TGGTCTTAC GGAAGGCGT
GCTCTTACC GCGTGGCG CCGGCACT CAGCTGCTC TTACTGCTG GGTGGGCT
TGCCACCAT GTGGGCGG TGGCGGAG CGGGGCAAC AAGACAGC GCGCTACGG
CTTCATGGC CTCTGTGG TCGTGGCG CCGTGGGAG ATGCTGGCT TCGTGGCTG



HGS

HNFDL69XX: H.sapiens repeat polymorphism in LIPE gene for hor

GAACCTGCTG TGGGCTTTTG ACCGCTGCTC CAGCCTTCTG CCGCTTACT CCAAGGCTTA
CATCTCTTTC TGCTTGCTGA TCTTGGGCGG CGTCTGGCC ACCATCATGG GCGTCTATGG
GGCCATCTTC CCGCTGGTGC AGGCCAGGGG GCAGAAGGCC CCACGCCAG CGGCCGGGCG
CAAGGCCCGC CGCTGCTGA AGAAGGTGCT GATGATCTCT TGGGCTTCT TGGTGTGCTG
GGGACCACTC TTGGGCTGC TGCTGGCGGA CGCTTTTGGC TCCAACTCT GGGGCCAGGA
GTACTTGGG GGCATGGAAT GGATCTTGGC CCTGGCGCTC CTCAACTGG CGGTCAAGCC
CATCATCTAC TCTTTCGCA GCAGGGAGGT GTGCAGAGCC GTGCTAGCT TCTCTGCTG
CGGTGTCTC CCGCTGGGCA TGGAGGGCC CCGGACTGC CTGGGCGGG CCGTCGAGGC
TCACTCCGA GCTTCCACA CCGACAGCTC TCTGAGGCA AGGACAGCT TTGCGGGCTC
CCGCTGGCTC AGCTTTGGA TGCGGGAGCC CCTGTCCAG ATCTCCAGG TGGGAGCAT
CTGAAGTTGC AGCTTTGGT GTGGATGGT CAACCAAGG GTGGTGCCA GGCAGGCGCT
CTGGGGTAC AGGAAGCTGT GTCAAGCAA CCGTGGCTG TATGGGAGC AGGAAAGGG
ACAGGCCCC ATGGACTTC CCGTGGCTT CTGGGGCTT, CTGAGGCCAT ATGGACTTGC
CCATTGCCA TGGCTCAAC TGGACAAGGA GGCAACCAC CCACTTCCC GTAGGAGCAG
AGAGCACCTT GGTGTGGGG CGAGTGGGT CCCACAAAC CCGCTTCTGT GTGATTCTGG
GGAAGTCCC GCGCTCTCT GGGCTCAGT AGGCTTCCA GCGTCAAGG GTGGACTGT
GGGATGCATG CCTGGCAAC ATTGAAGTTC GATCATGTA AAAAAAAAAA
AAAAAAAAA AAAAAA

//

Sequence Notes

Sequence Information

Gene Name: H.sapiens repeat polymorphism in LIPE gene 1 HGS Code: 563238 Sequence ID: HNFDL69XX

Library Name: Human Neutrophil, Activated Library Catalog: H0271

Date Sequenced: Lab Sequenced: HGS Group ID: 2514675 Class: 1

Date Scored: Lab Scored: HGS In Group: 18 Previous Class: 1

Search Results

Overlap	Score	Description
gb X65642	260	H.sapiens repeat polymorphism in LIPE gene for hormone sensitive lipase.
gp X54937 HS	93	cannabinoid receptor [Homo sapiens] >pir S SI7595 cannabinoid receptor - human >sp P21554 CB1R_HUMAN CANNABINOID RECEPTOR 1
gp X55812 RN	93	putative cannabinoid receptor [Rattus norvegicus] >pir S A33117 cannabinoid receptor - rat >sp P20272 CB1R_RAT CANNABINOID R
gp L20334 MU	141	EDG-like receptor [Mus musculus]
gp U10699 RN	152	pH218 [Rattus norvegicus] >pir S JC1465 probable G protein-coupled receptor - rat
gp M31210 HU	210	ECGF1 gene product [Homo sapiens] >pir S A35300 G protein-coupled receptor edg-1 - human >sp P21453 EDG1_HUMAN PROBABLE G P

Sequence

ID HNFDL69XX unannotated; DNA; 545 BP.
DE H.sapiens repeat polymorphism in LIPE gene for hormone sensitive lipase.

Sequence 545 BP;
ARAPASGLS QPFGEAMNAT GTPVAPESQ QLAAGHSRL IVLHVNHSR LAGRGPEDG
GIGALRGLSV AASCLAVLEN LLVLAATISH MRSQRWYYC LVNITMSDLL TGAAYLANVL
LSCARTFRLA PAQWFLRKGL LFTALAASIF SLIFTAGIRF ATMVRFAES GATKTSRVYG
FIGLCWLLAA LIGMLPLGW NCLCAFDRCS SLLFLYSKRY ILFCLVIFAG VLATIMGLYG
AIFRLVQASG QKAPRPAARR KARRLLKTVL MILLAFLVOW GPLFGILLAD VFGSNLWAQE
YLKGMWILA LAVINSANP ITYSFRSREV CRAVLSFLOC GCILRGMGRP GDCLARAVEA
HSGASTDSS LRPRDSFRGS RSLSFMRREP LSSISSVRSI *SCSLAOCWC NHRVRARQAL
LGYRKLCA RN LALYGEQGIT QAPMDLPGGL SELLTPYGLA HCLMLTLDKE ATTTPPPRRSR
EHRGVGASGF PITPLLCDSG EVPAPIWASV GLPCKGGMIV GCMFQOH*SS IMVKKKKKKK
KKKKK



Human Genome Sciences, Inc.
Sequence Worksheet
HNFDL69XX: H.sapiens repeat polymorphism in LIPE gene for hor

//

Sequence Notes

Applicant: LI *et al.*

Appl. No.: 08/852,824

Filed: May 7, 1997

For: Human G-Protein Coupled Receptors

Due Date: None

Art Unit: 1646

Examiner: Basi, N.

Docket: 1488.1220000

Atty: EKS/HCC

When receipt stamp is placed hereon, the USPTO acknowledges receipt of the following documents:

1. Transmittal letter (*in duplicate*);
2. Change of Correspondence Address;
3. Original executed Associate Power of Attorney; and
4. One (1) return postcard.

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